

**CERTIFICATE OF MAILING**

I hereby certify that this paper is being deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on November 30, 2004.

*John J. Burton*

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

In the Application of :  
Rangopala DAROLIA et al. : Confirmation No.: 6051  
Serial No.: 10/634,543 : Art Unit: 1762  
Filing Date: August 5, 2003 :  
For: **Ion Implantation of Turbine Engine Rotor Component**

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT PURSUANT  
TO 37 CFR 1.56, 1.97 AND 1.98 (WITHIN 3 MONTHS OF FILING OR PRIOR  
TO FIRST OFFICE ACTION)**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.56, 1.97, and 1.98, Applicants request the Examiner to make of record the documents listed on the attached PTO/SB/08 form. In accordance with MPEP 609, the Examiner is requested to initial each document listed on the attached PTO/SB/08 form in the space provided, make a copy of the initialed form, and return the copy to Applicants' attorney.

Applicants became aware of the references cited as a result of a European Search Report for the EPO application corresponding to the instant U.S. application. Copies of the EP reference and the journal article cited are enclosed. Applicants have also enclosed abstracts of the cited Japanese references. U.S. 5,780,110 A was previously cited to the Office.

This submission does not represent that a search has been made or that no closer art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior

art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

This paper and the enclosed documents are being submitted in accordance with 37 CFR 1.97(b), i.e., within three (3) months of the application filing date or prior to a first Office Action on the merits. Therefore, no fee is believed to be due.

Respectfully submitted,  
For: Ramgopal DAROLIA et al.

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November 30, 2004

10/634,543

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<i>Complete if Known</i>	
				Application Number	10/634,543
				Filing Date	August 5, 2003
				First Named Inventor	Ramgopal Darolia et al.
				Art Unit	1762
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	129954

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)					
		JP 62 174377 A		07/31/1987	Mitsubishi Heavy Ind. LTD		Abs
		EP 0 240 110 A		10/07/1987	Babcock & Wilcox Co.		
		JP 2 015164 A		01/18/1990	Raimuzu:KK		Abs

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s) volume-issue number(s), publisher, city and/or country where published.	T <sup>7</sup>
		DODD, A. et al., "The effect of ion implantation on the fatigue life and corrosion resistance of M50 steel bearings," Surface and Coatings Technology, vol. 74-75, no. 1-32 (1995), pp. 754-759.	

Examiner Signature		Date Considered	
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